

**Claims:**

1. A system for freezing, thawing, and storing a biopharmaceutical material, said system comprising:

a flexible container adapted to receive biopharmaceutical material therein for freezing, thawing, and storing said container comprising a first substantially trapezoidal portion attached to a second substantially trapezoidal portion.

2. The system of claim 1 wherein a first angle of a lateral side of said container relative to an indicator line substantially perpendicular to a bottom side of said container comprises a first dimension and a second angle of a wall of a temperature control unit relative to a bottom of said temperature control unit comprises a second dimension, and wherein said first dimension is substantially complimentary to said second dimension.

3. The system of claim 2 wherein a third angle of a second lateral side of said container relative to a second indicator line substantially parallel to said indicator line comprises a third dimension and wherein said third dimension is substantially equivalent to said first dimension.

4. The system of claim 2 wherein said wall is a first wall and said temperature control unit comprises a second wall opposite said first wall, a plurality of heat transfer surfaces, a third wall, and a fourth wall, and wherein said third wall and said fourth wall are adapted to move relative to each other to compress said container to cause said container to inhibit a clearance between said container and said plurality of heat transfer surfaces.

5. The system of claim 1 wherein said container is adapted to comprise a prismatic shape in response to being substantially filled with the biopharmaceutical material and being received in an interior of a temperature control unit.

6. The system of claim 1 wherein said container comprises a sterile bag adapted to contain the biopharmaceutical material and wherein said bag is adapted to substantially conform to a shape of an interior of a temperature control unit.

7. The system of claim 1 wherein said container is adapted to contain the biopharmaceutical material at least one of before, during, and after a freezing of the biopharmaceutical material, when the biopharmaceutical material is received in said container.

8. The system of claim 1 wherein said container is adapted to contain the biopharmaceutical material at least one of before, during, and after a thawing of the biopharmaceutical material, when the biopharmaceutical material is received in said container.

9. A method for freezing, thawing, and storing a biopharmaceutical material, the method comprising:

connecting a first flat substantially trapezoidal portion to a second flat substantially trapezoidal portion to form a container adapted to contain the biopharmaceutical material and adapted to conform to a shape of an interior of a temperature control unit.